Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

- 1-17. (Canceled)
- 18. (Previously presented) A polynucleotide encoding a fusion protein, the fusion protein comprising at least one pan DR binding peptide selected from the formula R_1 - R_2 - R_3 - R_4 - R_5 , wherein:

R₁ is an amino acid followed by alanine or lysine;

R₂ is selected from the group consisting of tyrosine, or phenylalanine;

R₃ is 3 or 4 amino acids, wherein each amino acid is independently selected from the group consisting of alanine, isoleucine, serine, glutamic acid and valine;

R₄ is selected from the group consisting of threonine-leucine-lysine, lysinethreonine, or tryptophan-threonine-leucine-lysine (SEQ ID NO:16); and,

R₅ consists of 2 to 4 amino acids followed by an amino acid wherein each of the 2 to 4 amino acids is independently selected from the group consisting of alanine, serine, and valine (SEQ ID NOS:17-22, representing the pan DR bidding peptide where R₄ in the pan DR binding peptide consists of tryptophan-threonine-leucine-lysine (SEQ ID NO:16)).

- 19. (Previously presented) An expression vector comprising the polynucleotide of claim 18.
- 20. (Previously presented) The polynucleotide of claim 18, wherein the fusion protein comprises multiple pan DR peptides.
- 21. (Previously presented) The polynucleotide of claim 18, wherein the fusion protein comprises a homopolymer of pan DR peptides.

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- 22. (Previously presented) The polynucleotide of claim 18, wherein the fusion protein comprises a heteropolymer of pan DR peptides.
- 23. (Previously presented) The polynucleotide of claim 18, wherein the fusion protein further comprises a heteropolymer with repeating units.
- 24. (Previously presented) The polynucleotide of claim 18, wherein the fusion protein further comprises a T helper peptide.
- 25. (Previously presented) The polynucleotide of claim 18, wherein the fusion protein further comprises an antibody-inducing peptide.
- 26. (Previously presented) The polynucleotide of claim 18, wherein the fusion protein further comprises a CTL-inducing peptide.
- 27-65. (Canceled)